Docket No. IMPJ-003

DECLARATION & POWER OF ATTORNEY

As a below-named inventor, we hereby declare that:

My correct residence, post office address and citizenship are stated below next to my name.

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|---|--|---|--|--------------------------|--|---|--|--|---------------------------------------|
| "METH | OD AND | APPARAT | US FOR TR | RIMMING HIGH | I-RESOLUT | ION DIGITAL | -TO-AN | ALOG | |
| CONVE | RTER". | The specif | ication of thi | is subject matte | er: | | | | |
| | | is attached | hereto. | | | | | | |
| | xx | was filed or | August 13, | 2001; | | | | | |
| | XX | was assign which was a | | . <u>09/929,652</u> 1 | ·; | | | | |
| applicati do not b my invention sale in th has not applicati represent design p applicati for pater | ion, inclination the Unite been partition in ar natatives patent april acknowing in herebynt or investion in acknowint or investigation in acknowing in ac | uding the claimereof, or pate of or more the d States of attented or may country foor assigns repplication) power the cordance work claim foreignentor's certif | aims, as amored invention and one year America more the sub reign to the nore than two for to this and the sub state of the sub state of the sub sub subsection of the subsect | ose information | mendment(wn or used in rinted public plication, the ar prior to the later's certific of America cor a utility part which is marked by U.S.C. §1: a also identific to the later's end of | s) referred to a in the United Station in any cat the same whis application, ate issued before an application aterial to the earterial to the earted below any fied below any | above. States of ountry be as not in and that fore the on filed on) or sin xaminate by foreign | I do not know f America before my n public use of the invention date of this by me or my lix months (for ition of this application for application for | and ore r on n legal a |
| Prior Fo | reign Ar | oplication(s) | | | | | | Priority Clai | med |
| • | NONE | | | | | | | | |
| Number | | Country | | Month/Day/Ye | ear Filed | Yes | No | | |
| Number | | Country | · · · · · · · · · · · · · · · · · · · | Month/Day/Ye | ear Filed | Yes | No | <u> </u> | |
| Number | | Country | | Month/Day/Ye | ear Filed | Yes | No | | |
| | | | | | | | | | |



| NONE | | |
|--------------------|-------------|--|
| Application Number | Filing Date | |
| Application Number | Filian Data | |
| Application Number | Filing Date | |

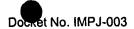
I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in these prior United States application(s) in the manner provided by 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

| NONE | | |
|-----------------|-------------|-------------------------------------|
| Application No. | Filing Date | Status (Issued, Pending, Abandoned) |
| Application No. | Filing Date | Status (Issued, Pending, Abandoned) |
| Application No. | Filing Date | Status (Issued, Pending, Abandoned) |
| Application No. | Filing Date | Status (Issued, Pending, Abandoned) |

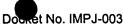
I hereby appoint David B. Ritchie, Registration No. 31,562; Marc S. Hanish, Registration No. 42,626; John P. Schaub, Registration No. 42,125; Gerhard W. Thielman, Registration No. 43,186; Adrienne Yeung, Registration No. 44,000; Steven J. Robbins, Registration No. 40,299; William Samuel Niece, Registration No.: P47,824; and John Klaas Uilkema, Registration No. 20,282 as attorneys of record with full power of substitution and revocation, to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith.

Please send all correspondence and direct all telephone calls to:

David B. Ritchie
Thelen Reid & Priest LLP
P.O. Box 640640
San Jose, CA 95164-0640
Telephone: (408) 292-5800
Facsimile: (408) 287-8040



| FULL NAME OF INVENTOR 1 | FIRST Name | MIDDLE Initial(s) | LAST Name | |
|-----------------------------|----------------------------------|--------------------------|------------------|--------------|
| INVENTOR | John | D. | Hyde | |
| RESIDENCE AN CITIZENSHIP | | State or Foreign Country | Country of Cit | izenship |
| | Corvalis | Oregon | USA | |
| POST OFFICE ADDRESS | Number and Street | City | State or Country | Zip Code |
| | 37845 Soap Creek Road | Corvalis | Oregon | 97330 |
| FULL NAME OF INVENTOR 2 | FIRST Name | MIDDLE Initial(s) | LAST Name | |
| | Miguel | <u>E </u> | <u>Figueroa</u> | |
| RESIDENCE AN CITIZENSHIP | D City | State or Foreign Country | Country of Ci | tizenship |
| | Seattle | Washington | CHILE | |
| POST OFFICE ADDRESS | Number and Street | City | State or Country | Zip Code |
| | 4200 Mary Gates Drive, NE #T251 | Soattle | Washington | 98105 |
| FULL NAME OF | FIRST Name | MIDDLE Initial(s) | . LAST Name | |
| | Todd | E | Humes | |
| RESIDENCE AN CITIZENSHIP | D City | State or Foreign Country | Country of Ci | tizenship |
| | Shoreline | Washington | USA | |
| POST OFFICE ADDRESS | Number and Street | City | State or Country | Zip Code |
| | 817 NW 200 th Street | Shoreline | Washington | 98177 |
| FULL NAME OF INVENTOR 4 | FIRST Name | MIDDLE Initial(s) | LAST Name | |
| | Christopher | J | <u>Diorio</u> | |
| RESIDENCE AN CITIZENSHIP | D City | State or Foreign Country | Country of Ci | tizenship |
| | Shoreline | Washington | USA | |
| POST OFFICE ADDRESS | Number and Street | City | State or Country | Zip Code |
| | 17001 15 th Avenue NW | Shoreline | Washington | 98177 |
| | | | | |



FULL NAME OF FIRST Name MIDDLE Initial(s) LAST Name **INVENTOR 5** Hass **RESIDENCE AND** State or Foreign Country Country of Citizenship City **CITIZENSHIP** <u>Ballwin</u> <u>Missouri</u> **POST OFFICE Number and Street** City State or Country Zip Code **ADDRESS** 9 Greystoke Court Ballwin Missouri 63021 FULL NAME OF FIRST Name MIDDLE Initial(s) LAST Name **INVENTOR 6** Lindhorst Chad RESIDENCE AND Country of Citizenship City State or Foreign Country **CITIZENSHIP** Washington POST OFFICE Zip Code Number and Street City State or Country **ADDRESS** 4517 49th Avenue NE Seattle Washington 98105 I further declare that all statements made herein of my own knowledge are true and that all statements made upon information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon. Miguel E. Figueroa Date Todd E. Humes Date Date Christopher J. Diorio

Chad A. Lindhorst

Terry D. Hass

Date

Date

Duty t disclose informati n material t patentability

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1,97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
 - (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
 - (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

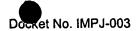
- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application;
 - (2) Each attorney or agent who prepares or prosecutes the application; and
 - (3) Every other person who is substantively involved in the preparation or
 - prosecution of the application and who is associated with the inventor, with the assignee or with anyone to who
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.



As a below-named inventor, we hereby declare that:

My correct residence, post office address and citizenship are stated below next to my name.

| disclosed an | nd claimed and fo | r which a patent is sought on the inve | ntion entitled: | | | |
|---|---|---|--|--|---|-----------|
| "METHOD | AND APPARATU | S FOR TRIMMING HIGH-RESOLUT | ION DIGITAL | TO-AN | ALOG | |
| CONVERTE | R". The specific | ation of this subject matter: | | | | |
| | is attached h | ereto. | | | | |
| XX | was filed on g | August 13, 2001; | | | | |
| xx | | d serial No. <u>09/929,652</u> mended on; | | , | | |
| application, ido not believed invention the sale in the Uhas not beer application in representatives application in achapplication in for patent or | including the clair we that the claime thereof, or pater ereof or more than inited States of Ai n patented or mad n any country fore wes or assigns mo nt application) pric knowledge the du n accordance with reby claim foreign inventor's certific | ave reviewed and understand the corns, as amended by any amendment(sid invention was ever known or used inted or described in any printed publication one year prior to this application, that merica more than one year prior to this de the subject of an inventor's certification to the United States of America of the than twelve months (for a utility pair to this application. If y to disclose information which is main 37 C.F.R. §1.56(a). In priority benefits under 35 U.S.C. §11 that listed below and have also identified thaving a filing date before that of the | s) referred to n the United Station in any cat the same was application, ate issued be n an application atent application at the east of t | above. I States of country b as not in and that fore the ion filed to on) or si examinat | I do not know an America before efore my noublic use or or at the invention date of this by me or my legax months (for a ion of this application(s) application for | n al |
| Prior Foreigr | n Application(s) | | | | Priority Claime | <u>:C</u> |
| NON | | | | | | _ |
| Number | Country | Month/Day/Year Filed | Yes | No | | |
| Number | Country | Month/Day/Year Filed | Yes | No | · · | _ |
| Number | Country | Month/Day/Year Filed | Yes | No | | _ |
| | | | | | | |



| NONE | | |
|--------------------|-------------|--|
| Application Number | Filing Date | |
| Application Number | Filing Date | |

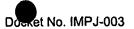
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| NONE | | |
|-----------------|-------------|-------------------------------------|
| Application No. | Filing Date | Status (Issued, Pending, Abandoned) |
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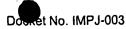
I hereby appoint David B. Ritchie, Registration No. 31,562; Marc S. Hanish, Registration No. 42,626; John P. Schaub, Registration No. 42,125; Gerhard W. Thielman, Registration No. 43,186; Adrienne Yeung, Registration No. 44,000; Steven J. Robbins, Registration No. 40,299; William Samuel Niece, Registration No.: P47,824; and John Klaas Uilkema, Registration No. 20,282 as attorneys of record with full power of substitution and revocation, to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith.

Please send all correspondence and direct all telephone calls to:

David B. Ritchie
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P.O. Box 640640
San Jose, CA 95164-0640
Telephone: (408) 292-5800
Facsimile: (408) 287-8040



| FULL NAME OF | FIRST Name | MIDDLE Initial(s) | LAST Name | |
|-----------------------------|----------------------------------|-----------------------------|------------------------|--------------|
| INVENTOR 1 | | _ | | |
| RESIDENCE AN | <u>John</u> D City | D. State or Foreign Country | Hyde Country of Cit | zonebio |
| CITIZENSHIP | D City | State of Foreign Country | Country of Cit | zensnip |
| | Corvalis | Oregon | USA | |
| POST OFFICE ADDRESS | Number and Street | City | State or Country | Zip Code |
| | 37845 Soap Creek Road | Corvalis | Oregon | 97330 |
| | | | | |
| FULL NAME OF INVENTOR 2 | FIRST Name | MIDDLE Initial(s) | LAST Name | |
| | Miguel | Ε | Figueroa | |
| RESIDENCE AN CITIZENSHIP | D City | State or Foreign Country | Country of Cit | izenship |
| | Seattle | Washington | CHILE | |
| POST OFFICE ADDRESS | Number and Street | City | State or Country | Zip Code |
| | 4200 Mary Gates Drive, NE #T251 | Seattle | Washington | 98105 |
| | | | | |
| FULL NAME OF INVENTOR 3 | FIRST Name | MIDDLE Initial(s) | LAST Name | |
| | Todd | <u>E </u> | Humes (C | |
| RESIDENCE AN CITIZENSHIP | D City | State or Foreign Country | Country of Cit | izensnip |
| | Shoreline | Washington | USA | |
| POST OFFICE ADDRESS | Number and Street | City | State or Country | Zip Code |
| | 817 NW 200 th Street | Shoreline | Washington | 98177 |
| FULL NAME OF INVENTOR 4 | FIRST Name | MIDDLE Initial(s) | LAST Name | |
| | Christopher | J | Diorio | |
| RESIDENCE AN CITIZENSHIP | | State or Foreign Country | Country of Cit | izenship |
| | Shoreline | Washington | USA | |
| POST OFFICE ADDRESS | Number and Street | City | State or Country | Zip Code |
| | 17001 15 th Avenue NW | Shoreline | Washington | 98177 |
| | | | | |



| FULL NAME OF INVENTOR 5 | FIRST Name | MIDDLE | Initial(s) | LAST Na | ame | |
|--|--|--|---|--------------------------------|-------------------------------------|-------------------------|
| HAVEIALOKS | Terry | D. | | Hass | | |
| RESIDENCE AN CITIZENSHIP | | | State or Foreign Count | | Country of Citi | zenship |
| | Ballwin | | Missouri | | USA | |
| POST OFFICE ADDRESS | Number and Street | City | | or Country | Zip Code | |
| | 9 Greystoke Court | Ballwin | Misso | ouri | 6302 | 1 |
| FULL NAME OF | FIRST Name | MIDDI E | Initial(s) | LAST Na | ame | |
| INVENTOR 6 | 1 II O I Haille | MIDDEL | . middi(3) | Dioi inc | 21110 | |
| | Chad | Α | | Lindhors | | |
| RESIDENCE AN CITIZENSHIP | D City | | State or Foreign Count | ry | Country of Citi | zenship |
| | Seattle | | Washington | | USA | |
| POST OFFICE ADDRESS | Number and Street | | City | State or | | Zip Code |
| | 4517 49 th Avenue NE | | Seattle | Washing | ıton | 98105 |
| made upon inform knowledge that we Section 1001 of 3 | declare that all statements nation and belief are believ villful false statements and Fitle 18 of the United States or any patent issuing then | ved to be t the like so s Code, ar | true; and further that the o made are punishable t | ese statemen by fine or imp | its were made v prisonment, or t | vith the ooth, under |
| or the application | i or any patent issuing their | 30II. | lliL | | 11, | (12/01 |
| John D. Hyde | Date | | Mgy E.Figu | ieroa | | Date |
| Todd E. Humes | -Date | | Christopher J. | . Diorio | | Date |
| Terry D. Hass | Date | | Chad A. Lindh | norst | | Date |

Duty t disclose inf rmation material to patentability

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1,97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
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 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application;
 - (2) Each attorney or agent who prepares or prosecutes the application; and
 - (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to who
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

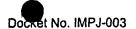


As a below-named inventor, we hereby declare that:

My correct residence, post office address and citizenship are stated below next to my name.

I believe myself to be the original, first and sole inventor (if only one name is listed below) or an

| original and fi | rst joint invento | or (if more than one name is listed below |) of the subj | ect mat | ter which is | | |
|---|--|---|----------------|---------|----------------------|--|--|
| disclosed and | I claimed and fo | or which a patent is sought on the invent | tion entitled: | | | | |
| "METHOD A | ND APPARATI | US FOR TRIMMING HIGH-RESOLUTIO | ON DIGITAL | -TO-AN | IALOG | | |
| CONVERTER | R". The specific | cation of this subject matter: | | | • | | |
| | is attached I | hereto. | | | | | |
| xx | was filed on | vas filed on <u>August 13, 2001</u> ; | | | | | |
| XX | was assigned serial No. <u>09/929,652</u> which was amended on; | | | | | | |
| application, in do not believe my invention to invention there sale in the Un has not been application in representative design patent I ackrapplication in I here for patent or in | I hereby state that I have reviewed and understand the contents of the above-identified patent application, including the claims, as amended by any amendment(s) referred to above. I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application, that the same was not in public use or on sale in the United States of America more than one year prior to this application, and that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with 37 C.F.R. §1.56(a). I hereby claim foreign priority benefits under 35 U.S.C. §119 (a)-(d) of any foreign application(s) | | | | | | |
| | | e having a filing date before that of the a | application of | n which | priority is claimed. | | |
| Prior Foreign | Application(s) | | | | Priority Claimed | | |
| NONE | | 14 | | | | | |
| Number | Country | Month/Day/Year Filed | Yes | No | | | |
| Number | Country | Month/Day/Year Filed | Yes | No | | | |
| Number | Country | Month/Day/Year Filed | Yes | No | | | |
| | | | | | | | |



Status (Issued, Pending, Abandoned)

Status (Issued, Pending, Abandoned)

Status (Issued, Pending, Abandoned)

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below:

| NONE | | |
|---|--|--|
| Application Number | Filing Date | |
| Application Number | Filing Date | |
| and, insofar as the subject United States application material information as d | ct matter of each of the claims (s) in the manner provided by | 10 of any United States application(s) listed below is of this application is not disclosed in these prior 35 U.S.C. §112, I acknowledge the duty to disclose which occurred between the filing date of the prioring date of this application. |
| NONE | | |
| Application No. | Filing Date | Status (Issued, Pending, Abandoned) |
| | | |

I hereby appoint David B. Ritchie, Registration No. 31,562; Marc S. Hanish, Registration No. 42,626; John P. Schaub, Registration No. 42,125; Gerhard W. Thielman, Registration No. 43,186; Adrienne Yeung, Registration No. 44,000; Steven J. Robbins, Registration No. 40,299; William Samuel Niece, Registration No.: P47,824; and John Klaas Uilkema, Registration No. 20,282 as attorneys of record with full power of substitution and revocation, to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith.

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Filing Date

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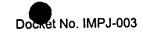
Filing Date

Application No.

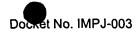
Application No.

Application No.

David B. Ritchie
Thelen Reid & Priest LLP
P.O. Box 640640
San Jose, CA 95164-0640
Telephone: (408) 292-5800
Facsimile: (408) 287-8040



| INVENTOR 1 John RESIDENCE AND City State or Foreign Country Country of Citizenship Corvalis Corvalis Corvalis Oregon USA POST OFFICE Number and Street ADDRESS 37845 Soap Creek Road Corvalis Oregon USA POST OFFICE Number and Street ADDRESS 37845 Soap Creek Road Corvalis MIDDLE Initial(s) LAST Name INVENTOR 2 RESIDENCE AND City State or Foreign Country Country of Citizenship CHILE POST OFFICE ADDRESS MIDDLE Initial(s) LAST Name FIGUE TO COUNTRY Country of Citizenship CHILE Washington CHILE Washington CHILE Washington POST OFFICE ADDRESS MIDDLE Initial(s) LAST Name Washington POST OFFICE ADDRESS MIDDLE Initial(s) LAST Name Washington POST OFFICE Number and Street ADDRESS MIDDLE Initial(s) LAST Name Washington USA POST OFFICE Number and Street ADDRESS Shoreline Washington USA FILL NAME OF FIRST Name Number and Street ADDRESS MIDDLE Initial(s) LAST Name Washington USA POST OFFICE Number and Street ADDRESS MIDDLE Initial(s) LAST Name Washington USA POST OFFICE Number and Street ADDRESS MIDDLE Initial(s) LAST Name Washington USA POST OFFICE Number and Street City State or Country Country of Citizenship Citizenship Citizenship FILL NAME OF FIRST Name INVENTOR 4 Christopher Shoreline Washington USA POST OFFICE Number and Street City State or Country Zip Code POST OFFICE Number and Street City State or Country Zip Code POST OFFICE Number and Street City State or Country Zip Code POST OFFICE Number and Street City State or Country Zip Code POST OFFICE Number and Street City State or Country Zip Code POST OFFICE Number and Street City State or Country Zip Code POST OFFICE Number and Street City State or Country Zip Code | FULL NAME OF | FIRST Name | MIDDLE Initial(s) | LAST Name | |
|---|--------------|----------------------------------|--------------------------|------------------|------------|
| RESIDENCE AND City State or Foreign Country Country of Citizenship CITIZENSHIP Corvalis Oregon USA POST OFFICE ADDRESS 37845 Soap Creek Road Corvalis Oregon JUSA Oregon 97330 FULL NAME OF FIRST Name INVENTOR 2 Miquel E. Figueroa RESIDENCE AND City State or Foreign Country Country of Citizenship CITIZENSHIP POST OFFICE ADDRESS 4200 Mary Gates Drive, NE #T251 FULL NAME OF FIRST Name INVENTOR 3 Todd E. Humes RESIDENCE AND City State or Foreign Country LAST Name INVENTOR 3 Todd E. Humes RESIDENCE AND City State or Foreign Country Zip Code MIDDLE Initial(s) LAST Name INVENTOR 3 Todd E. Humes RESIDENCE AND City State or Foreign Country Country of Citizenship CITIZENSHIP MIDDLE Initial(s) LAST Name INVENTOR 3 Todd E. Humes RESIDENCE AND City State or Foreign Country Country of Citizenship CITIZENSHIP POST OFFICE Number and Street City State or Country Zip Code Washington USA POST OFFICE ADDRESS 817 NW 200 th Street MIDDLE Initial(s) LAST Name USA POST OFFICE Number and Street City State or Country Zip Code MIDDLE Initial(s) LAST Name USA POST OFFICE ADDRESS 817 NW 200 th Street MIDDLE Initial(s) LAST Name USA POST OFFICE Number and Street City State or Country Country of Citizenship Christopher J. Diorio RESIDENCE AND City Citizenship Christopher J. Diorio RESIDENCE AND City Citizenship POST OFFICE Number and Street City State or Country Country of Citizenship CITIZENSHIP POST OFFICE Number and Street City State or Country Country of Citizenship Country of Citizenship Citizenship Citizenship City Country of Citizenship | INVENTOR 1 | loha | n | Hvde | |
| POST OFFICE ADDRESS Number and Street ADDRESS Number and Street ADDRESS State or Country State or Country State or Country State or Country | | | | | izenship |
| POST OFFICE ADDRESS 37845 Soap Creek Road Corvalis Oregon 97330 FULL NAME OF FIRST Name MIDDLE Initial(s) INVENTOR 2 Miguel RESIDENCE AND City CITIZENSHIP Seattle Washington City State or Foreign Country State or Country State or Country Country of Citizenship City State or Country Zip Code Washington CHILE POST OFFICE ADDRESS 4200 Mary Gates Drive, NE #T251 Seattle Washington FULL NAME OF INST Name MIDDLE Initial(s) INVENTOR 3 Todd RESIDENCE AND City State or Foreign Country Shoreline Washington USA POST OFFICE ADDRESS 817 NW 200 th Street Shoreline Washington USA FULL NAME OF IRST Name Number and Street City State or Country Country of Citizenship FULL NAME OF IRST Name Number and Street City State or Country LAST Name Number and Street ADDRESS 817 NW 200 th Street MIDDLE Initial(s) LAST Name POST OFFICE ADDRESS Number and Street City State or Country Country of Citizenship LAST Name Number of Citizenship FULL NAME OF FIRST Name Number and Street City State or Country Country of Citizenship CITIZENSHIP Shoreline Washington USA POST OFFICE ADDRESS Number and Street City State or Country Country of Citizenship CITIZENSHIP Shoreline Washington USA POST OFFICE Number and Street City State or Country Country of Citizenship CITIZENSHIP Shoreline Number and Street City State or Country Zip Code | | Corvalis | Oregon | USA | |
| FULL NAME OF FIRST Name MIDDLE Initial(s) LAST Name INVENTOR 2 Miguel E. Figueroa Country Country of Citizenship RESIDENCE AND City State or Foreign Country Country of Citizenship Seattle Washington CHILE POST OFFICE Number and Street City State or Country Zip Code ADDRESS 4200 Mary Gates Drive, NE #T251 Seattle Washington 98105 FULL NAME OF FIRST Name MIDDLE Initial(s) LAST Name INVENTOR 3 Todd E. Humes RESIDENCE AND City State or Foreign Country Country of Citizenship CITIZENSHIP Shoreline Washington USA POST OFFICE Number and Street City State or Country Zip Code ADDRESS 817 NW 200 th Street Shoreline Washington 98177 FULL NAME OF FIRST Name MIDDLE Initial(s) LAST Name INVENTOR 4 Christopher J. Diorio RESIDENCE AND City State or Foreign Country Country of Citizenship FULL NAME OF FIRST Name MIDDLE Initial(s) LAST Name INVENTOR 4 Christopher J. Diorio RESIDENCE AND City State or Foreign Country Country of Citizenship CITIZENSHIP Shoreline Washington USA POST OFFICE Number and Street City State or Country Zip Code ADDRESS Shoreline Washington USA POST OFFICE Number and Street City State or Country Zip Code ADDRESS | | Number and Street | | State or Country | Zip Code |
| INVENTOR 2 RESIDENCE AND CITY Seattle Washington CHILE POST OFFICE ADDRESS 4200 Mary Gates Drive, NE #T251 FULL NAME OF FIRST Name INVENTOR 3 RESIDENCE AND CITYZENSHIP Shoreline Washington Shoreline Washington Washington USA POST OFFICE ADDRESS 817 NW 200 th Street MIDDLE Initial(s) Shoreline Washington USA MIDDLE Initial(s) LAST Name INVENTOR 3 E. Humes Country of Citizenship City State or Foreign Country Country of Citizenship City State or Country Zip Code Washington USA POST OFFICE ADDRESS 817 NW 200 th Street MIDDLE Initial(s) LAST Name Washington USA POST OFFICE ADDRESS 817 NW 200 th Street MIDDLE Initial(s) LAST Name MIDDLE Initial(s) LAST Name Washington 98177 FULL NAME OF FIRST Name INVENTOR 4 Christopher J. Diorio RESIDENCE AND City State or Foreign Country Country of Citizenship Shoreline Washington USA POST OFFICE Number and Street City State or Country Zip Code ADDRESS | | 37845 Soap Creek Road | Corvalis | Oregon | 97330 |
| Miguel E. Figueroa | | FIRST Name | MIDDLE Initial(s) | LAST Name | |
| Seattle Washington CHILE POST OFFICE ADDRESS 4200 Mary Gates Drive, NE #T251 Seattle Washington 98105 FULL NAME OF FIRST Name MIDDLE Initial(s) LAST Name INVENTOR 3 Todd E. Humes RESIDENCE AND City State or Foreign Country Country of Citizenship CITIZENSHIP Shoreline Washington USA POST OFFICE ADDRESS 817 NW 200 th Street Shoreline Washington 98177 FULL NAME OF FIRST Name MIDDLE Initial(s) LAST Name INVENTOR 4 Christopher J. Diorio RESIDENCE AND City State or Foreign Country Country Country Country Country Citizenship FULL NAME OF FIRST Name MIDDLE Initial(s) LAST Name INVENTOR 4 Christopher J. Diorio RESIDENCE AND City State or Foreign Country Country of Citizenship Shoreline Washington USA POST OFFICE Number and Street City State or Country State or Country of Citizenship Shoreline Washington USA POST OFFICE Number and Street City State or Country Zip Code ADDRESS | | Miguel | | | <u> </u> |
| POST OFFICE ADDRESS 4200 Mary Gates Drive, NE #T251 Seattle Washington 98105 FULL NAME OF FIRST Name MIDDLE Initial(s) LAST Name INVENTOR 3 Todd E. Humes RESIDENCE AND City State or Foreign Country Country of Citizenship CITIZENSHIP Shoreline Washington USA POST OFFICE ADDRESS 817 NW 200 th Street Shoreline Washington 98177 FULL NAME OF FIRST Name MIDDLE Initial(s) LAST Name Name Name Name Name Name Name Name | | D City | State or Foreign Country | Country of Ci | tizenship |
| POST OFFICE ADDRESS 4200 Mary Gates Drive, NE #T251 Seattle Washington 98105 FULL NAME OF FIRST Name MIDDLE Initial(s) LAST Name INVENTOR 3 Todd E. Humes RESIDENCE AND City State or Foreign Country Country of Citizenship CITIZENSHIP Shoreline Washington USA POST OFFICE ADDRESS 817 NW 200 th Street Shoreline Washington 98177 FULL NAME OF FIRST Name MIDDLE Initial(s) LAST Name Name Name Name Name Name Name Name | | Soattle | Washington | CHILE | |
| FULL NAME OF FIRST Name MIDDLE Initial(s) LAST Name INVENTOR 3 Todd E. Humes RESIDENCE AND City State or Foreign Country Country of Citizenship CITIZENSHIP Shoreline Washington USA POST OFFICE Number and Street City State or Country Zip Code ADDRESS 817 NW 200 th Street Shoreline Washington 98177 FULL NAME OF FIRST Name MIDDLE Initial(s) LAST Name INVENTOR 4 Christopher J. Diorio RESIDENCE AND City State or Foreign Country Country of Citizenship CITIZENSHIP Shoreline Washington USA POST OFFICE Number and Street City State or Country Zip Code ADDRESS | | | | | Zip Code |
| INVENTOR 3 Todd E. Humes RESIDENCE AND City CITIZENSHIP Shoreline Washington USA POST OFFICE ADDRESS 817 NW 200 th Street Shoreline Wilder Middle E. Humes Country Country of Citizenship USA POST OFFICE ADDRESS 817 NW 200 th Street Middle Initial(s) LAST Name INVENTOR 4 Christopher J. Diorio RESIDENCE AND City CITIZENSHIP Shoreline Washington USA Washington USA Country of Citizenship USA Washington USA POST OFFICE Number and Street ADDRESS Vashington USA Vashington USA Vashington USA POST OFFICE Number and Street ADDRESS | | 4200 Mary Gates Drive, NE #T251 | Seattle | Washington | 98105 |
| INVENTOR 3 Todd E. Humes RESIDENCE AND City CITIZENSHIP Shoreline Washington USA POST OFFICE ADDRESS 817 NW 200 th Street Shoreline Wilder Middle E. Humes Country Country of Citizenship USA POST OFFICE ADDRESS 817 NW 200 th Street Middle Initial(s) LAST Name INVENTOR 4 Christopher J. Diorio RESIDENCE AND City CITIZENSHIP Shoreline Washington USA Washington USA Country of Citizenship USA Washington USA POST OFFICE Number and Street ADDRESS Vashington USA Vashington USA Vashington USA POST OFFICE Number and Street ADDRESS | | | | | |
| RESIDENCE AND City State or Foreign Country Country of Citizenship Shoreline Washington USA POST OFFICE Number and Street City State or Country Zip Code ADDRESS 817 NW 200 th Street Shoreline Washington 98177 FULL NAME OF FIRST Name MIDDLE Initial(s) LAST Name INVENTOR 4 Christopher J. Diorio RESIDENCE AND City State or Foreign Country Country of Citizenship CITIZENSHIP Shoreline Washington USA POST OFFICE Number and Street City State or Country Zip Code ADDRESS | | FIRST Name | MIDDLE Initial(s) | | |
| Shoreline Washington USA POST OFFICE ADDRESS 817 NW 200 th Street Shoreline Washington 98177 FULL NAME OF INVENTOR 4 Christopher J. Diorio RESIDENCE AND City State or Foreign Country Country of Citizenship Shoreline Washington USA POST OFFICE Number and Street City State or Country Zip Code Washington USA POST OFFICE Number and Street City State or Country Zip Code ADDRESS | | | <u>E</u> | Humes | dina nabia |
| POST OFFICE ADDRESS Number and Street City State or Country Zip Code | | D City | State or Foreign Country | Country of Ci | tizensnip |
| POST OFFICE ADDRESS 817 NW 200 th Street Shoreline Washington 98177 FULL NAME OF FIRST Name MIDDLE Initial(s) LAST Name INVENTOR 4 Christopher J. Diorio RESIDENCE AND City State or Foreign Country Country of Citizenship CITIZENSHIP Shoreline Washington USA POST OFFICE Number and Street City State or Country Zip Code ADDRESS | | Shoreline | Washington | USA | |
| FULL NAME OF FIRST Name MIDDLE Initial(s) LAST Name INVENTOR 4 Christopher J. Diorio RESIDENCE AND City State or Foreign Country CITIZENSHIP Shoreline Washington USA POST OFFICE Number and Street City State or Country Zip Code ADDRESS | | | | State or Country | Zip Code |
| INVENTOR 4 Christopher RESIDENCE AND City CITIZENSHIP Shoreline Washington Visa Country of Citizenship USA POST OFFICE Number and Street ADDRESS Diorio Country of Citizenship City State or Foreign Country Country of Citizenship Country of Citizenship City State or Country Zip Code | | 817 NW 200 th Street | Shoreline | Washington | 98177 |
| Christopher RESIDENCE AND City CITIZENSHIP Shoreline Washington USA POST OFFICE Number and Street ADDRESS Christopher J. Diorio Country Country of Citizenship USA City State or Country Zip Code | | FIRST Name | MIDDLE Initial(s) | LAST Name | |
| RESIDENCE AND City State or Foreign Country Country of Citizenship CITIZENSHIP Shoreline Washington USA POST OFFICE Number and Street City State or Country Zip Code ADDRESS | IIIVEITORY | Christopher | J | | |
| POST OFFICE Number and Street City State or Country Zip Code ADDRESS | | | State or Foreign Country | Country of C | tizenship |
| POST OFFICE Number and Street City State or Country Zip Code ADDRESS | | Shoreline | Washington | USA | |
| 17001 15 th Avenue NW Shoreline Washington 98177 | | | | | Zip Code |
| | _ | 17001 15 th Avenue NW | Shoreline | Washington | 98177 |



| FULL NAME OF INVENTOR 5 | FIRST Name | MIDDLE | Initial(s) | LAST Name | |
|---|---|--|--|--|------------------------------------|
| HAVEIALOIK | Terry | D. | | Hass | • |
| RESIDENCE AN CITIZENSHIP | | | State or Foreign Country | | of Citizenship |
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| POST OFFICE ADDRESS | Number and Street | City | | r Country Zip | Code |
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| FULL NAME OF | FIRST Name | MIDDLE | Initial(s) | LAST Name | |
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| | Seattle | | Washington | USA | |
| POST OFFICE ADDRESS | Number and Street | | City | State or Country | Zip Code |
| | 4517 49 th Avenue NE | | Seattle | Washington | 98105 |
| made upon inforr knowledge that w Section 1001 of 1 | nation and belief are be rillful false statements ar | ieved to be to the to the like so the like | rein of my own knowledge true; and further that these o made are punishable by and that such willful false si | e statements were n fine or imprisonmer | nade with the t, or both, under |
| John D. Hyde | Date | | Miguel E. Figue | roa | Date |
| (D00 E | Q | Novem Bezz | Zooi | | |
| Todd E. Humes | Date | | Christopher J. D. | Diorio | Date |
| Terry D. Hass | Date | · —, —, —— | Chad A. Lindho | rst | Date |

Duty to disclose information material to patentability

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1,97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
 - (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
 - (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application;
 - (2) Each attorney or agent who prepares or prosecutes the application; and
 - (3) Every other person who is substantively involved in the preparation or

prosecution of the application and who is associated with the inventor, with the assignee or with anyone to who

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

As a below-named inventor, we hereby declare that:

My correct residence, post office address and citizenship are stated below next to my name.

| disclosed a | ina cialmea ana for | wnich a patent is sought on the inven | tion entitied: | | |
|--|---|---|--|--|---|
| "METHOD | AND APPARATUS | FOR TRIMMING HIGH-RESOLUTION | ON DIGITAL | TO-AN | ALOG |
| CONVERT | ER". The specifical | tion of this subject matter: | | | |
| | is attached her | reto. | | | |
| xx | was filed on Au | ugust 13, 2001; | | | |
| XX | | serial No. <u>09/929,652</u> ended on; | | | |
| application, do not belie my invention the sale in the lihas not bee application representat design pate I acapplication I he | including the claims eve that the claimed in thereof, or patents ereof or more than united States of Am en patented or made in any country foreig cives or assigns more ent application) prior cknowledge the duty in accordance with | to disclose information which is mate 37 C.F.R. §1.56(a). priority benefits under 35 U.S.C. §119 | referred to the United Station in any of the same we application, the issued be an application ent application erial to the e | above. I States of country be as not in , and that fore the di ion filed I on) or six | do not know and America before efore my public use or on t the invention date of this by me or my legal x months (for a |
| for patent o | r inventor's certifica | te listed below and have also identifie aving a filing date before that of the a | ed below any | foreign | application for |
| Prior Foreig | n Application(s) | | | ٠ | Priority Claimed |
| NO | NE | | | | <u> </u> |
| Number | Country | Month/Day/Year Filed | Yes | No | |
| Number | Country | Month/Day/Year Filed | Yes | No | |
| Number | Country | Month/Day/Year Filed | Yes | No | <u>.</u> |
| | | | | | |



| NONE | | |
|--------------------|-------------|--|
| Application Number | Filing Date | |
| Application Number | Filing Date | |

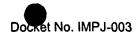
I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in these prior United States application(s) in the manner provided by 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

| NONE | | |
|-----------------|-------------|-------------------------------------|
| Application No. | Filing Date | Status (Issued, Pending, Abandoned) |
| Application No. | Filing Date | Status (Issued, Pending, Abandoned) |
| Application No. | Filing Date | Status (Issued, Pending, Abandoned) |
| Application No. | Filing Date | Status (Issued, Pending, Abandoned) |

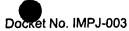
I hereby appoint David B. Ritchie, Registration No. 31,562; Marc S. Hanish, Registration No. 42,626; John P. Schaub, Registration No. 42,125; Gerhard W. Thielman, Registration No. 43,186; Adrienne Yeung, Registration No. 44,000; Steven J. Robbins, Registration No. 40,299; William Samuel Niece, Registration No.: P47,824; and John Klaas Uilkema, Registration No. 20,282 as attorneys of record with full power of substitution and revocation, to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith.

Please send all correspondence and direct all telephone calls to:

David B. Ritchie
Thelen Reid & Priest LLP
P.O. Box 640640
San Jose, CA 95164-0640
Telephone: (408) 292-5800
Facsimile: (408) 287-8040



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| | FIDOT Name | MIDDLE Invitation | | LAST Name | |
| FULL NAME OF INVENTOR 3 | | MIDDLE Initial(s) | | | |
| RESIDENCE AN | Todd D City | E. State or Foreign Country | | Humes Country of Cit | izenehin |
| CITIZENSHIP | D City | State of Foreign Country | | Country of Cit | izensinp |
| | Shoreline | Washington | | USA | |
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| FULL NAME OF INVENTOR 4 | FIRST Name | MIDDLE Initial(s) | | LAST Name | |
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| | Shoreline | Washington | | USA | |
| POST OFFICE ADDRESS | Number and Street | City | State or | Country | Zip Code |
| | 17001 15 th Avenue NW | Shoreline | Washin | gton | 98177 |



| FULL NAME OF | FIRST Name | MIDDLE | E Initial(s) | LAST Name | |
|--------------------------------------|--|----------------------------|--|---|-------------------------------|
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| FULL NAME OF INVENTOR 6 | FIRST Name | MIDDLE | E Initial(s) | LAST Name | |
| | Chad | A. | | Lindhorst | |
| RESIDENCE AN CITIZENSHIP | D City | | State or Foreign Country | Country of | f Citizenship |
| | Seattle | | Washington | USA | |
| POST OFFICE ADDRESS | Number and Street | | City | State or Country | Zip Code |
| | 4517 49 th Avenue NE | | Seattle | Washington | 98105 |
| made upon inforr knowledge that w | mation and belief are beli villful false statements and | eved to be d the like s | erein of my own knowledge true; and further that these o made are punishable by nd that such willful false st | statements were ma fine or imprisonment, | de with the or both, under |
| of the application | or any patent issuing the | ereon. | | | |
| John D. Hyde | Date | | Miguel E. Figuer | oa | Date |
| | | | Christan | lan J. D. | 11/16/200 |
| Todd E. Humes | Date | | Christopher J. D | iorio | Date |
| Terry D. Hass | Nate . | | Chad A Lindhor | et | Date |

Duty to disclose information material to patentability

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 - (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

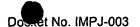
- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application;
 - (2) Each attorney or agent who prepares or prosecutes the application; and
 - (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to who
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

As a below-named inventor, we hereby declare that:

My correct residence, post office address and citizenship are stated below next to my name.

I believe myself to be the original, first and sole inventor (if only one name is listed below) or an

| original and first joint inventor (if more than one name is listed below) of the subject matter which is | | | | | | | | |
|---|---|--|---|---|---|--|--|--|
| disclosed and | claimed and for | which a patent is sought on the inven | ition entitled: | | | | | |
| "METHOD AN | ID APPARATUS | S FOR TRIMMING HIGH-RESOLUTION | ON DIGITAL | -TO-AN | IALOG | | | |
| CONVERTER | ". The specifica | ation of this subject matter: | | | • | | | |
| | is attached he | ereto. | | | | | | |
| XX | was filed on August 13, 2001; | | | | | | | |
| xx | was assigned serial No. 09/929,652 which was amended on; | | | | | | | |
| application, indo not believe my invention the invention there sale in the Unit has not been papplication in a representative design patent a | cluding the claim that the claimed hereof, or patente of or more than ted States of An patented or madany country fore s or assigns moapplication) prio | ave reviewed and understand the contains, as amended by any amendment(s) divention was ever known or used in ted or described in any printed publication one year prior to this application, that nerica more than one year prior to this e the subject of an inventor's certification to the United States of America on the than twelve months (for a utility pater to this application. To disclose information which is mater 37 C.F.R. §1.56(a). |) referred to the United Sation in any cation in any cation in any cation, the issued being an application, tent application. | above. States o ountry b as not in and tha fore the on filed on) or s | I do not know and f America before pefore my n public use or on at the invention date of this by me or my legal ix months (for a | | | |
| for patent or in | ventor's certifica | priority benefits under 35 U.S.C. §119 ate listed below and have also identified having a filing date before that of the | ed below any | foreign | application for | | | |
| Prior Foreign A | Application(s) | , | | | Priority Claimed | | | |
| NONE | | | | | | | | |
| Number | Country | Month/Day/Year Filed | Yes | No | | | | |
| Number | Country | Month/Day/Year Filed | Yes | No | | | | |
| Number | Country | Month/Day/Year Filed | Yes | No | | | | |



| NONE | | |
|--------------------|-------------|---|
| Application Number | Filing Date | _ |
| Application Number | Filing Date | _ |

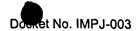
I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in these prior United States application(s) in the manner provided by 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

| NONE | | |
|-----------------|-------------|-------------------------------------|
| Application No. | Filing Date | Status (Issued, Pending, Abandoned) |
| Application No. | Filing Date | Status (Issued, Pending, Abandoned) |
| Application No. | Filing Date | Status (Issued, Pending, Abandoned) |
| Application No. | Filing Date | Status (Issued, Pending, Abandoned) |

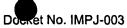
I hereby appoint David B. Ritchie, Registration No. 31,562; Marc S. Hanish, Registration No. 42,626; John P. Schaub, Registration No. 42,125; Gerhard W. Thielman, Registration No. 43,186; Adrienne Yeung, Registration No. 44,000; Steven J. Robbins, Registration No. 40,299; William Samuel Niece, Registration No.: P47,824; and John Klaas Uilkema, Registration No. 20,282 as attorneys of record with full power of substitution and revocation, to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith.

Please send all correspondence and direct all telephone calls to:

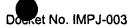
David B. Ritchie
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San Jose, CA 95164-0640
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| ELUL MANE OF | FIDOT Name | MIDDLE LESSON | LACTN | |
| FULL NAME OF INVENTOR 3 | FIRST Name | MIDDLE Initial(s) | LAST Name | |
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| FULL NAME OF | FIRST Name | MIDDLE | Initial(s) | LAST N | ame | • |
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| INVENTOR 6 | Chad | Α | | Lindhors | at . | |
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| POST OFFICE ADDRESS | Number and Street | | City | State or | Country | Zip Code |
| | 4517 49 th Avenue NE | | Seattle | Washing | aton | 98105 |
| made upon inforr knowledge that w Section 1001 of 1 | declare that all statements mation and belief are believ illful false statements and Fitte 18 of the United State or any patent issuing ther | ved to be t the like so s Code, ar | true; and further that these made are punishable by | e statemer fine or imp | its were made prisonment, o | e with the r both, under |
| John D. Hyde | Date | <u> </u> | Miguel E. Figue | roa | | Date |
| Todd E. Humes | Date | | Christopher J. E | Diorio | | Date |
| Jewy D. Hassi | D. Hess 11/6/ | 01 | Chad A, Lindho | rst | | Date |



Duty t disclose information material to patentability

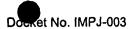
- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1,97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
 - (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
 - (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application;
 - (2) Each attorney or agent who prepares or prosecutes the application; and
 - (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to who
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

As a below-named inventor, we hereby declare that:

My correct residence, post office address and citizenship are stated below next to my name.

| disclosed | and claimed and for v | which a patent is sought on the inven | tion entitled: | | |
|--|--|---|--|--|---|
| "METHO | D AND APPARATUS | FOR TRIMMING HIGH-RESOLUTION | ON DIGITAL | -TO-AN | ALOG |
| CONVER | TER". The specificat | ion of this subject matter: | | | |
| Ε | is attached her | eto. | | | |
| х | X was filed on Au | igust 13, 2001; | | | |
| х | | serial No. <u>09/929,652</u> ended on; | | | |
| application do not bel my inventi invention sale in the has not be application represent design pa | n, including the claims ieve that the claimed ion thereof, or patents thereof or more than the United States of American patented or made in in any country foreign atives or assigns more tent application) prior acknowledge the duty in accordance with 3 | to disclose information which is mate 37 C.F.R. §1.56(a). | referred to the United Station in any country the same we application, the issued beto an application application application to the e | above. In States of country be as not in and that fore the confiled It con) or six | do not know and America before efore my public use or on the invention date of this by me or my legal x months (for a |
| for patent | or inventor's certificat | riority benefits under 35 U.S.C. §119 e listed below and have also identific aving a filing date before that of the a | ed below any | foreign | application for |
| Prior Fore | ign Application(s) | | | | Priority Claimed |
| N | ONE | | | | |
| Number | Country | Month/Day/Year Filed | Yes | No | |
| Number | Country | Month/Day/Year Filed | Yes | No | |
| Number | Country | Month/Day/Year Filed | Yes | No | |
| | | | | | |



Status (Issued, Pending, Abandoned)

the duty to disclose

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below:

| NONE NONE | | |
|---------------------------------|--|----------------------|
| Application Number | Filing Date | |
| Application Number | Filing Date | |
| | efit under 35 U.S.C. §120 of any United States applicati | |
| United States application(s) in | the manner provided by 35 U.S.C. §112, I acknowledged in 37 C.F.R. §1.56(a) which occurred between the filin | e the duty to disclo |

application(s) and the national or PCT international filing date of this application.

Filing Date Status (Issued, Pending, Abandoned) Application No. Application No. Filing Date Status (Issued, Pending, Abandoned) Application No. Filing Date Status (Issued, Pending, Abandoned)

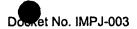
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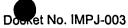
Filing Date

Application No.

David B. Ritchie Thelen Reid & Priest LLP P.O. Box 640640 San Jose, CA 95164-0640 Telephone: (408) 292-5800 Facsimile: (408) 287-8040



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| INVENTOR 2 | FINST Name | MIDDLE Initial(s) | | |
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| FULL NAME OF INVENTOR 4 | FIRST Name | MIDDLE Initial(s) | LAST Name | |
| | Christopher | J | Diorio | |
| RESIDENCE AN CITIZENSHIP | D City | State or Foreign Country | Country of Citi | zenship |
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| INVENTORS | Terry | D. | Hass | |
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| FULL NAME OF | FIRST Name | MIDDLE Initial(s) | LAST Name | |
| INVENTOR 6 | Chad | Α. | Lindhorst | |
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| | Seattle | Washington | USA | |
| POST OFFICE ADDRESS | Number and Street | City | State or Country | Zip Code |
| | 4517 49 th Avenue NE | Seattle | Washington | 98105 |
| made upon information knowledge that we section 1001 of 1001 o | mation and belief are believ villful false statements and t | ed to be true; and further the like so made are punish to code, and that such willful | owledge are true and that all at these statements were m able by fine or imprisonment false statements may jeopa | ade with the t, or both, under |
| or the application | i or any patent issuing there | | | |
| John D. Hyde | Date | Miguel E | . Figueroa | Date |
| | | | | • |
| Todd E. Humes | Date | Christop | her J. Diorio | Date |
| | | Plul | 1 Human | 11/20/2001 |
| Terry D. Hass | Date | Chad A. | Lindhorst | Date |



Duty to disclose information material t patentability

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 - prosecution of the application and who is associated with the inventor, with the assignee or with anyone to who
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